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Date of Deposit: February 19 2004

Our Ref. No. 4239-67782
First Named Inventor: Antonio Marchetti et al.
For: NUCLEOTIDE AND DEDUCED AMINO
ACID SEQUENCES OF TUMOR GENE INT6
Sheet 1 of 17

FIG. 1A

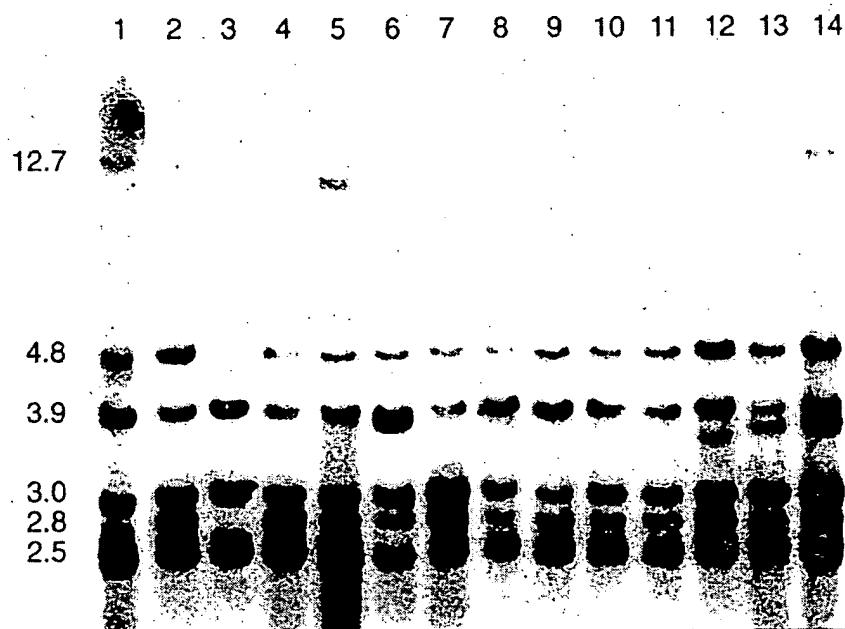
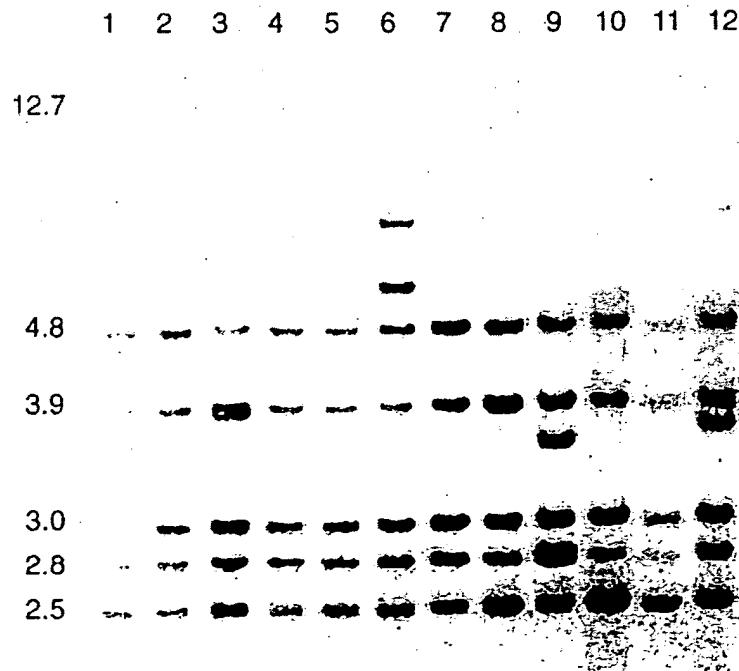


FIG. 1B



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FIG. 2A
FIG. 2B
FIG. 2C

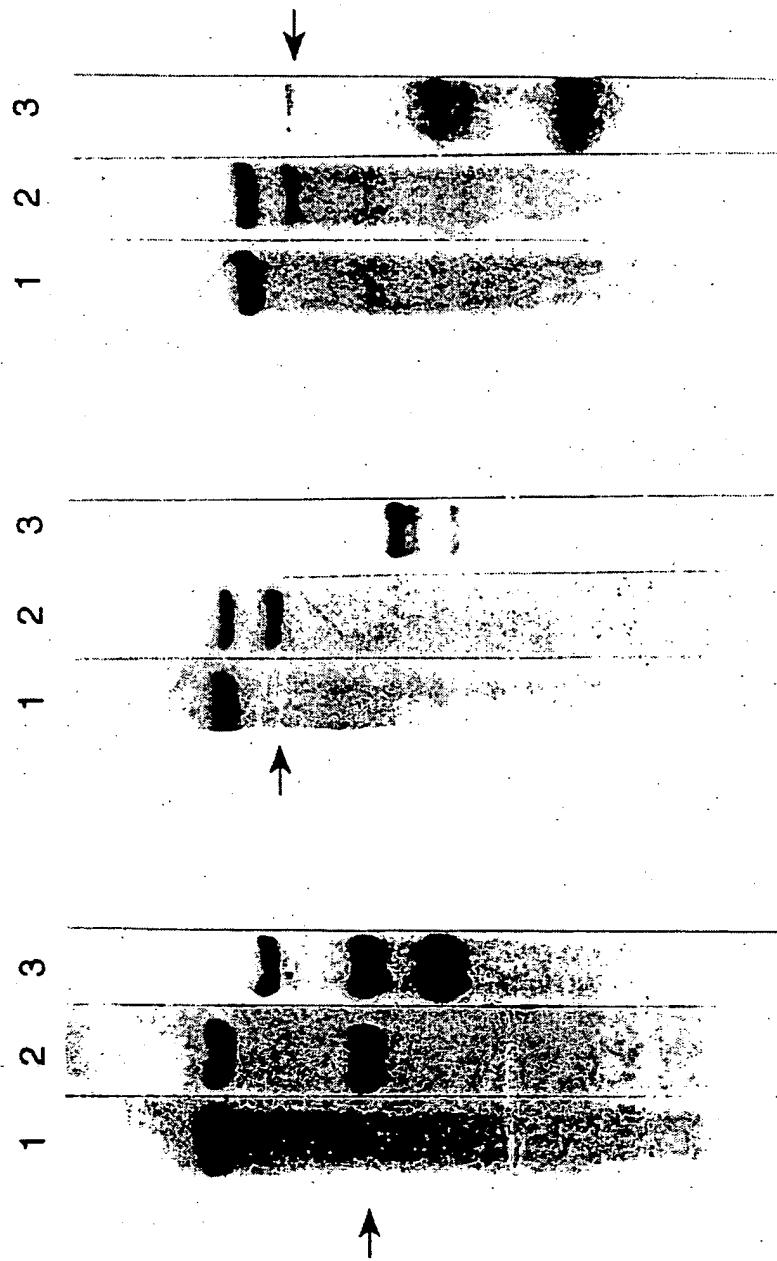
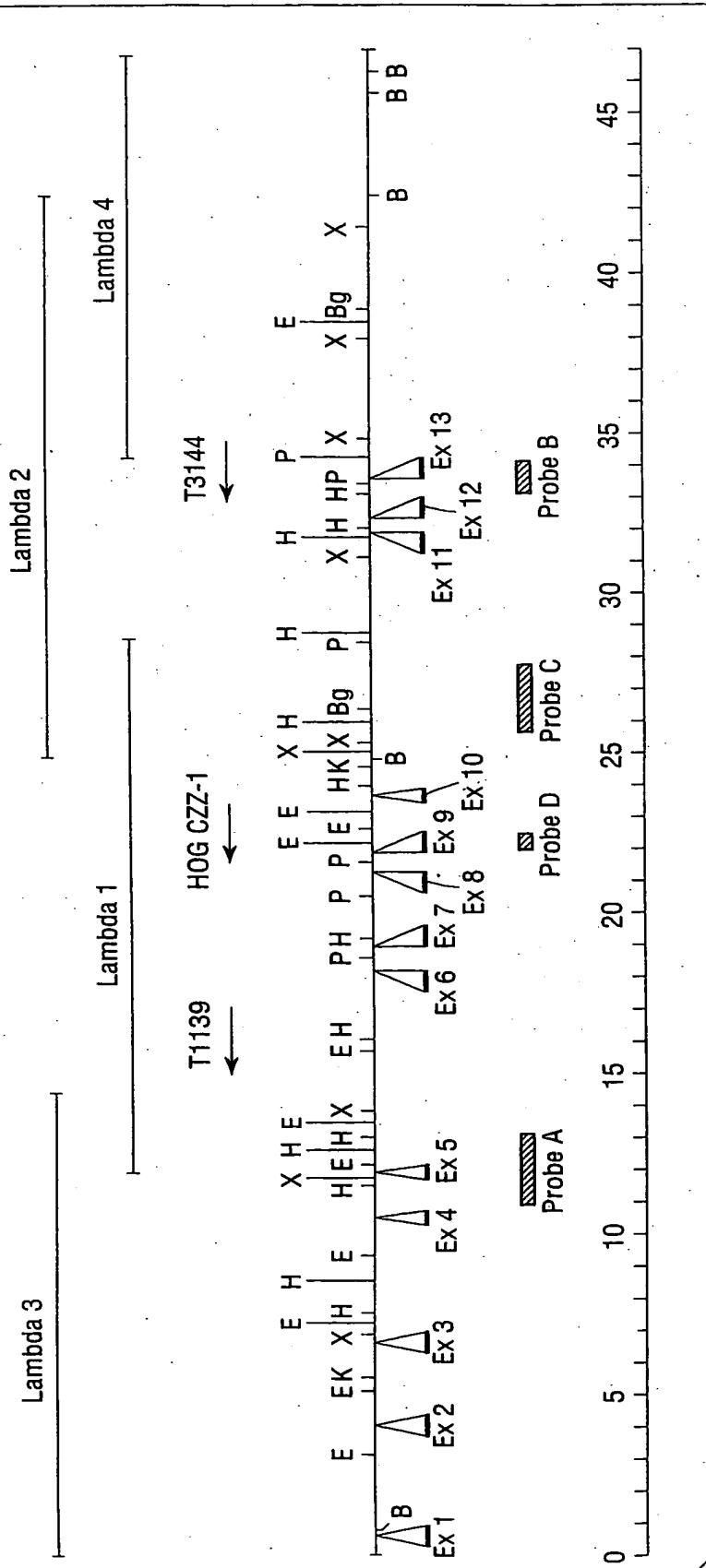


FIG. 3



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FIG. 4

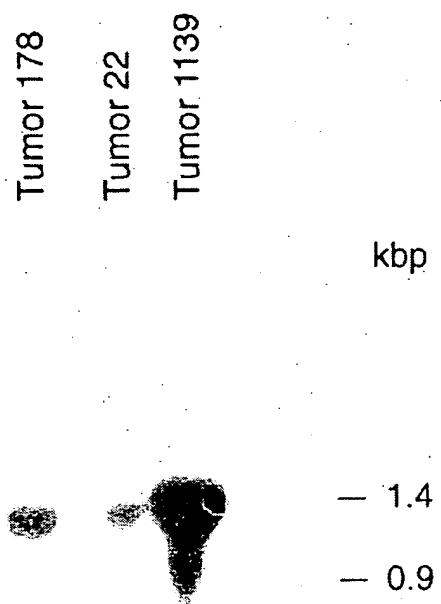


FIG. 5A

10 AACAGGCGCTCCCTCCCCGGCAAGATGGGGAGTACGACCTGACTACTGCATCGGCATTCTGGCACCTGGTCTTCGGCTTCTTGAGTTT
 30
 50
 70
 90
 110 CTCCTGTGAAAGGATTTATAATGAAAAAGAATTATTACAAGGAAAATTCAGTCTCTTAGTGTACCAATATGGTGGACTTTGCTATGGATGTTTACA
 130
 150
 170
 190
 210 AAAACCTTTATTCTGATGATATCCCTCATGCTTTGAGAGAAAAAGAACACAGTGTGGCAGCTGAACAGCTCCAGGCAGAAACAGAACCAAATTGT
 N L Y S D D I P H A L R E K R T (T) V V A Q L K Q L Q A E T E P I V
 230
 250
 270
 290
 310 GAAGATGTTGAAGATCCAGAAACTACAGGAGATGCGACTAACCGGGATGGCAGGATGTTATTGACTACCTGGCAGACAAACATGGGTTAGGCCAA
 K M F E D P E △ T R Q M Q ▽ T R D G R M L F D Y L A D K H G F R Q
 330
 350
 370
 390
 410 GAGTACTTAGATACACTCTACAGATAAGCAAAATTCCAGTATGAGTGTGAAATTACTCTGGAGCTGCAGAGTATCTTACTTTAGAGTTTTGGTCC
 E Y L D T L Y R Y A K F Q Y E C G □ Y S G A A E Y L Y F F R V L V P
 430
 450
 470
 490
 510 CAGCAACAGATAGAAATGCTTTAAGTTCGCTCTGGGGAAACTGGCCTCTGAATTCTTAATGCCAGATTGGGATGCCATGGAAAGACCTTACTCGATT
 A △ D R N A L S S L W G R A S E I L M Q N W D A A M E D L T R L
 530
 550
 570
 590
 610 AAAAGAAACCATAAGACAATAATTCTGTGAGTTCCACTCCAGTCTCTTCAGCAGCGAACATGGCTCATTCATTGTTGGTCTCTATTGTTCAACCAT
 K E T I D □ N N S V S S P L Q S L Q Q R T W L I H W S L F V F N H
 630
 650
 670
 690
 710 CCAAAGGGCCGTGATAAACATTATTGATCTCTTCCATTACCAACCACAGTATCTTAATGCAATTAGCAGACATGTGTCCACATATTCTACGCTATTGACTA
 P K G R D N I I D L F L Y Q P Q Y L N A I Q T M C P H I L R Y L T T
 730
 750
 770
 790

FIG. 5B

810 CTGCCGTCATAACCAACAAAGATGTGGAAAGATCTGGTGAAGTGCAGGTGCTGAAACGGCCGGCAGGGCTGCTGAAAGATCTGGTGAACAGGAGTCTTACACATATAAGACCCAAT
A V I ▽ N K D V R R Q V L K D L V K V I Q Q E S Y ▽ T Y K D P I
850 870 890
910 TACAGAATTGTGTTGAATGCCATTATATGTTAACTTGATTGAGACGGCTCATTTGAGACGTTGCTCGTGCAGGAGAAAGCTGAGAGAAATGTAATCGTGAATGACTTCTTCCTG
T E F V E C L Y V N F D F D G A Q K K L R E C E S V L V N D F F L
950 970 990
1010 1030 1050 1070 1090
V A C L E D F I E N A R L F I F E T F C R I H Q C I S I N M L A D K
1110 1130 1150 1170 1190
L N M ▽ P E E A E R W I V N L I R N A R L D A K I D S K L G H V V
ACTGAATATGACTCCAGAAGAGCTGAAAGATGGATTGAGAAATGCGAGGGTGGATGCCAAGAGATTGATTGCTAAACTAGGTCTGGTCAATGGTCTATGGT
1210 1230 1250 1270 1290
M G N N A V S P Y Q Q V I E K T K S L △ F R S Q M L A M N I E K K
1310 1330 1350 1370 1390
CTTAATCAGAACAGTAGATCAGGGCTCCCAACTGGCAACCCAAAGACTCTGGCTTCTGGATTATAAGGATTATAAGGAAAGAAAGATAAGTGAA,
L N Q N ▽ R S E A P N W A T Q D S G F Y
1410 1430 1450 1470 1490
AGACACAGTAGCCATTGTGTTAGAAGCAATTACATTTGAGAATTGGCTACAAATTGGCTATGA
TTAA 1504

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FIG. 6

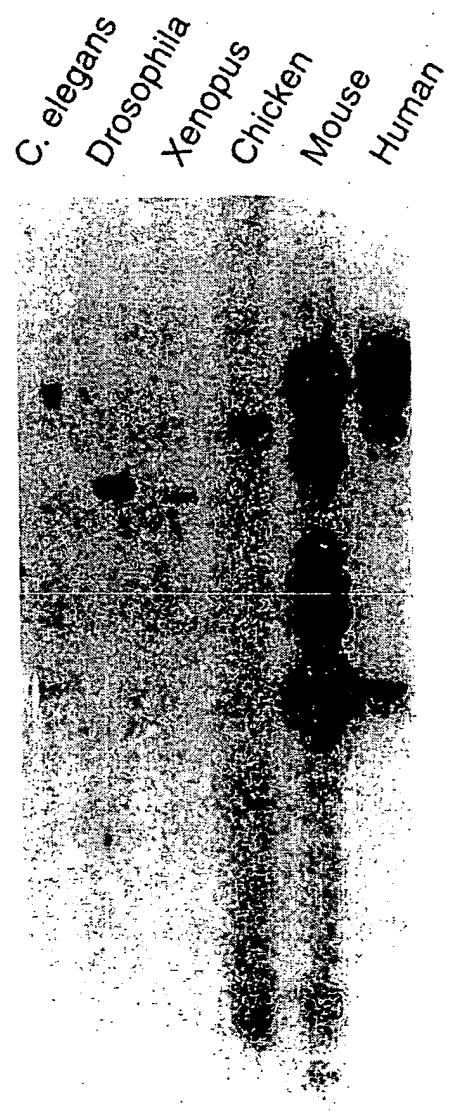


FIG. 7A

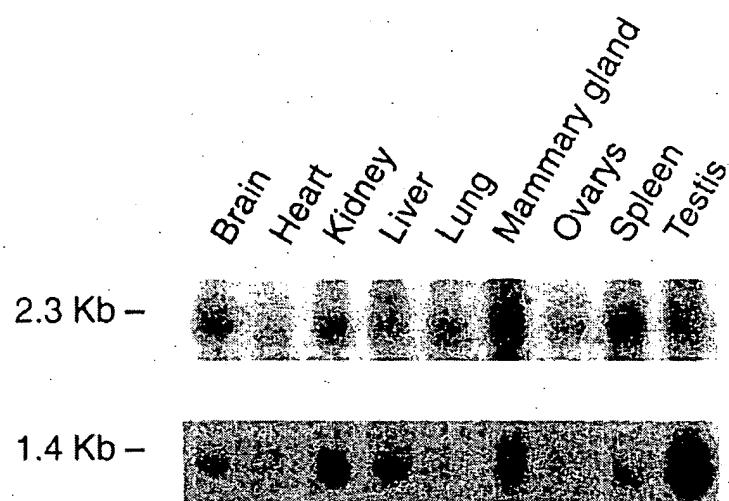
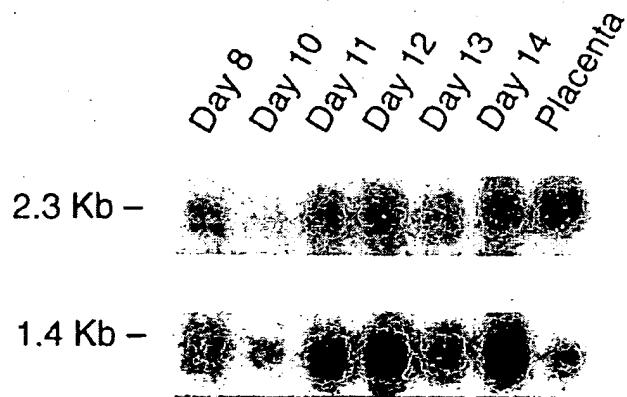


FIG. 7B

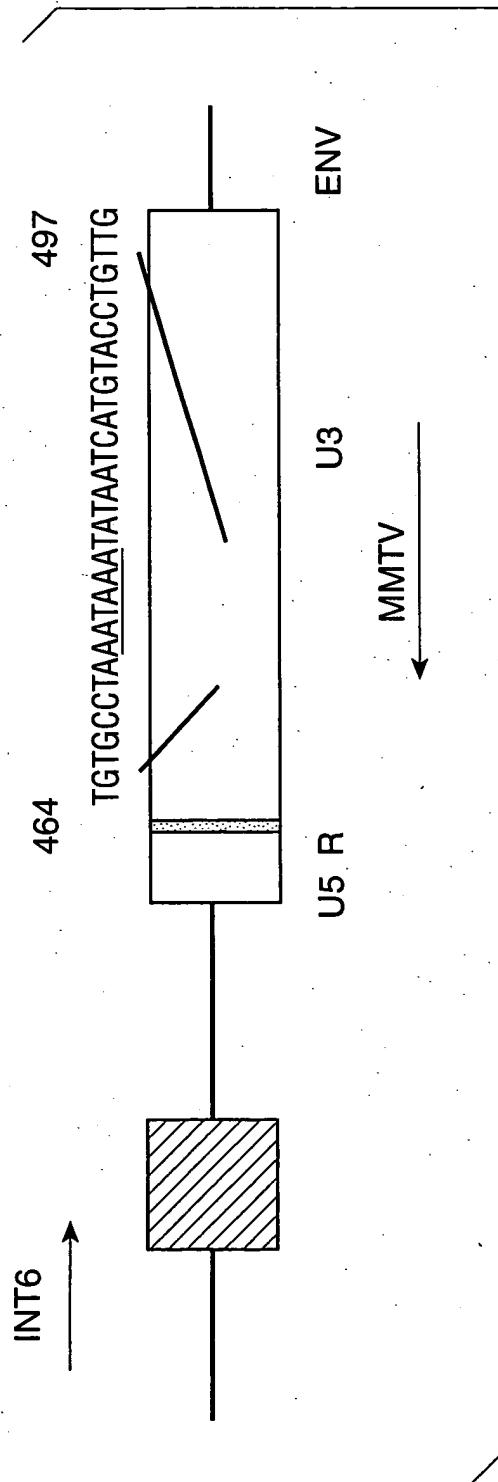


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FIG. 8



TUMOR 1139

350

1	D	G	R	M	L	F	D	Y	L	A	D	K	H	G	F	R	Q	E	Y	L	
2

GATGGCAGGATGTTATTGACTAACCTGGAGACAAACATGGGTTAGGCAAGAGTACTTA

1	D	T	L	Y	R	Y	A	K	F	Q	Y	E	C	G	N	Y	S	G	A	A
2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

498

GAGTATCTTACTTCTTAGAGTTTTGaaattgaagatgttgcactgtcaatggcatatt

1	E	Y	L	Y	F	F	R	V	L	N	*	-	-	-	-	-	-	-	-	-
2	.	.	.	.	.	.	.	.	.	.	.	-	-	-	-	-	-	-	-	-

agaacccttaacaggcactttccatcatgcacacaGCTGCCGCAGTCGGCGACCTTGAGGGCC

1	-	-	-	-	-	-	-	-	-	-	-	<u>L</u>	P	Q	S	A	D	L	R	A
2	-	-	-	-	-	-	-	-	-	-	-	.	.	.	.	.	.	.	.	.

ACCGGGGTCTGGGGGGGACCCCTCTGGAAAGGTAATGGATAAAGTGAACGGAGGGAGACGGGA

1	-	-	-	-	-	-	-	-	-	-	-	<u>T</u>	G	V	C	G	G	T	L	W	K	M	D	K	*
2	-	-	-	-	-	-	-	-	-	-	-	

TGGCGAACAGACACAAACACAGAGACGAATGTTAGGACTGTTGCAAGTTACTCANA

AATCAGGACTTCTTATATCATGCTTACATAAGCATTACATAAGACTTGGATAGATTCC

AAAAGAACATAGGAGGTTAGAACACTCAGAGCTTGAATCAAACATTTGATAACCAAAACCA

GGTCAGGAAACCACLTGTCACATCCTGTTAAAGAACAGTTGTAACCATGAAATTAA

TTTGAACCTTGGGAACCGCAGCAATAACCTTAATATGTATCATAAACAGTCAGGGTATG

CCTTAATATGTTTATAATATGTTCTTCCCTTACTTTAGGATTATTCTCC

AATGTTTATCCCTGTGCCTAAATAAA

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TUMOR 22

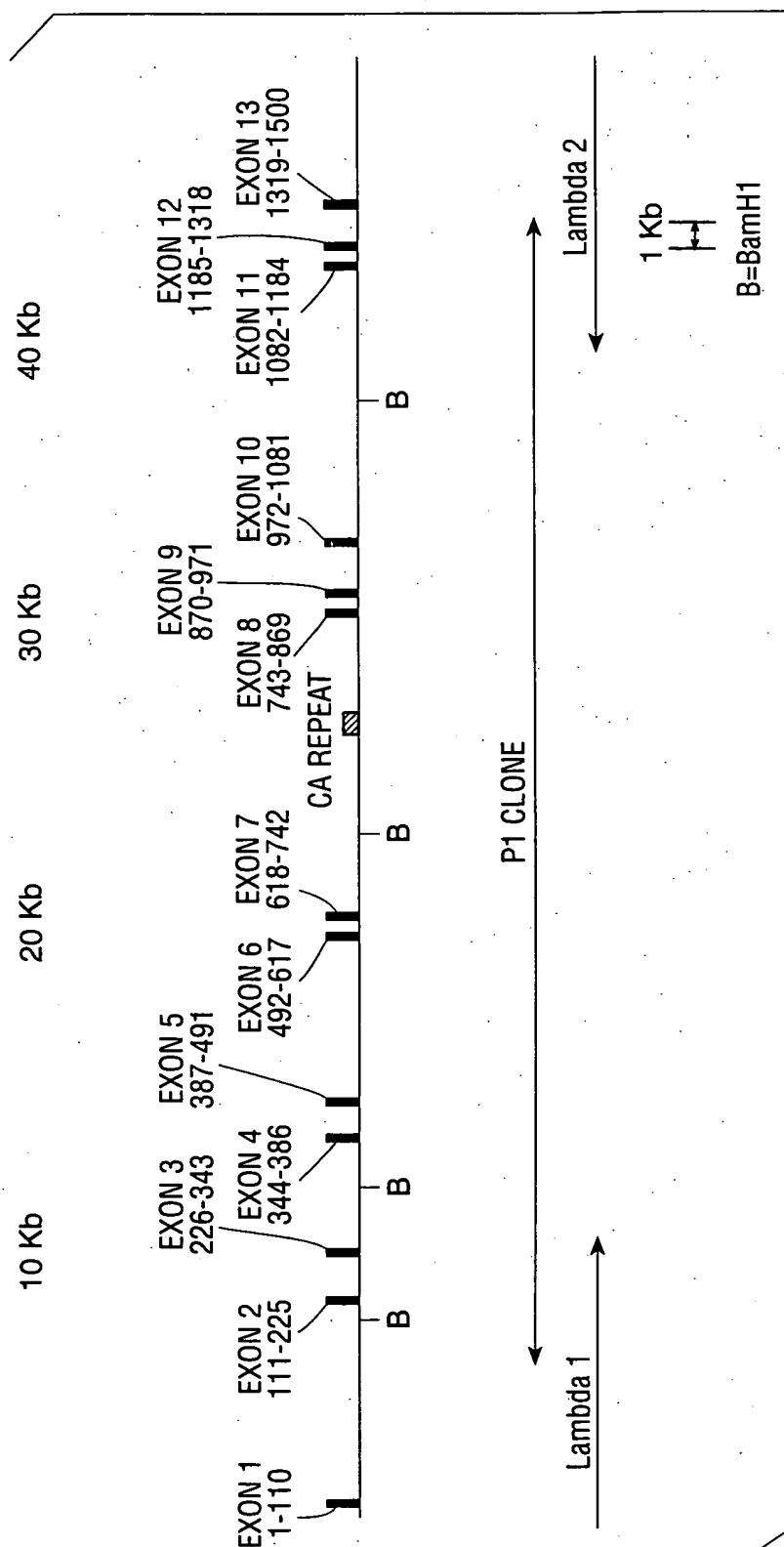
877

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FIG. 10



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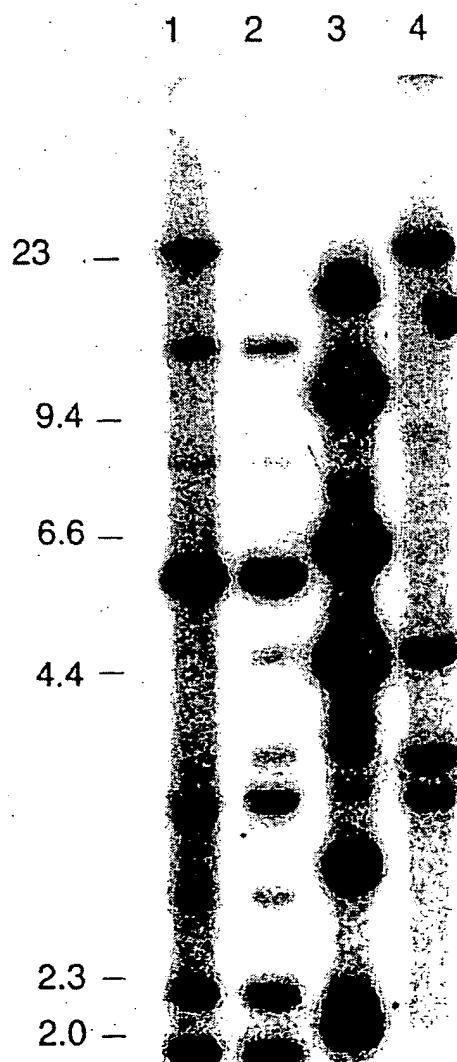
1
1
FIG.

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FIG. 12



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FIG. 13

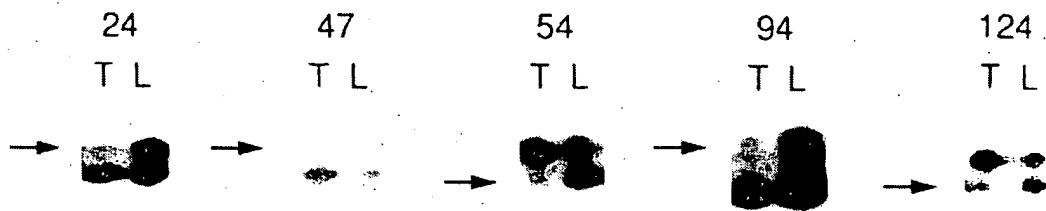


FIG. 14

5'			3'
<u>accaataaaagttttagtqagcacag</u>	EXON 1	gtgagggggtcttggcgc	<u>cactccccagaaaacccqcg</u>
tggttatttcaaattcactcgtgtc			
<u>ttaatcagttctttqggga</u>	38bp EXON 2	gtaagtttgcattagaact	<u>cattcaaaacagtaatcttga</u>
aattagtcaaagaaaacccct			
<u>tcttcgcatttttaattag</u>	EXON 3	gtaaaactcgtcttaattttg	<u>catttgagcagaattaaaac</u>
agaagacgtaaaaattaatc			
<u>cttattttgttctgtggcc</u>	36bp EXON 4 11bp	aaaaatattttaaagtgtcatg	<u>tttttataaaaatttcaacagta</u>
gaataaaaacaagacacccgg			
<u>aattacaatqggggttttaaa</u>	42bp EXON 5 42bp	taggattcccttggttcttc	<u>atcctaaggaaaccaagaag</u>
ttaatgttaccccaaaaattt			
<u>ttcaagagtattcacaatat</u>	EXON 6	gtgagttcgtcttttcaca	<u>cactcaagcagaaaaagtgt</u>
aagttctcataagtgttata			
<u>agttttcttatctcaccc</u>	36bp EXON 8	gtaaaactaaaatatatttg	<u>cattttgattttatataa</u>
tcaaaaagaaatagagtggga			
<u>ccgttgacttattttacag</u>	EXON 9	gtaagtgtgaattttat	<u>cattcacactaaaaataaa</u>
ggcaactgaataaaaatgtc			
<u>ttgttgtatttgcataatag</u>	EXON 10	gtaagaacaccgtgatttgat	<u>cattttgtggcactaaacta</u>
aacaacataaacatgtatatc			
<u>aaaactaagttttaggccc</u>	35bp EXON 11	gtgagttatgttagctat	<u>cactcataatacaatcgata</u>
tttgattcaaaaatccggg			
<u>ttccctgtgttccctttag</u>	EXON 12	gtaagaccacacatcttctat	<u>cattctgggtgttagaaagata</u>
aaggcacacaaggaaaatc			
<u>gattttttgcataatttag</u>	EXON 13	tcttgctgtcagtttcttg	<u>agaacgacagtc当地aqaaac</u>
ctaaagaaaaacgtataaaaatc			

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FIG. 15

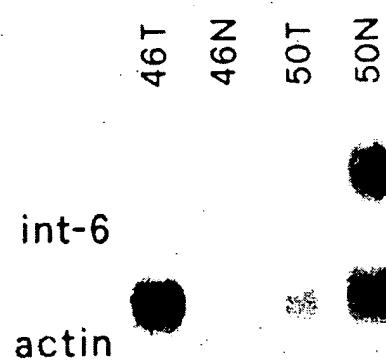


FIG. 16

